

SOUTH CAROLINA OFFICE OF REGULATORY STAFF

EXAMINATION REPORT FOR DOCKET NO. 2017-13-A

THE APPLICATION OF CHEM-NUCLEAR SYSTEMS, LLC, A SUBSIDIARY OF ENERGYSOLUTIONS COMPANY, FOR ADJUSTMENT IN THE LEVELS OF ALLOWABLE COSTS AND FOR IDENTIFICATION OF ALLOWABLE COSTS

On September 28, 2017, Chem-Nuclear Systems, LLC ("Chem-Nuclear") filed an application for Adjustment in the Levels of Allowable Costs for the Fiscal Year Ending June 30, 2017 and for Identification of Allowable Costs for the Fiscal Year Ending June 30, 2018, pursuant to S.C. Code Ann. Section 48-46-40 (B)(4) (Rev. 2008 & Supp. 2016).

Effective July 1, 2008, Pursuant to S.C. Code Ann. § 48-46-40 (A)(6)(a), (Supp. 2017), Chem-Nuclear can only accept waste generated within the three Atlantic Compact states, South Carolina, New Jersey and Connecticut. Additionally, since July 1, 2008, Chem-Nuclear commenced site closure ("institutional") activities parallel to its site disposal operating ("operational") activities. These institutional costs include site maintenance, monitoring, security, other administrative expenses and license costs, and are paid from the Barnwell Decommissioning Trust Fund and the Extended Care Maintenance Fund each year. Remaining reimbursable costs are included as operating costs in Chem-Nuclear's application for reimbursement filed with the Commission.

The South Carolina Office of Regulatory Staff ("ORS") completed an examination of the application and the underlying financial records of Chem-Nuclear for the operation of its regional low-level radioactive waste disposal facility located in the vicinity of Barnwell, South Carolina. Based on this examination, ORS recommended adjustments to Chem-Nuclear's fixed and vault costs for the fiscal year ending June 30, 2017. These adjustments were discussed with members of Chem-Nuclear's management who agreed with the adjustments.

A comparison of the allowable reimbursable costs to the amounts authorized by the PSC in Order No. 2017-378, dated June 13, 2017, was prepared by the ORS Audit Department. This comparison is attached herewith as Exhibit 1. As shown in Exhibit 1, ORS recommends that Chem-Nuclear be allowed to retain, as recovery of their expenditures in operating the Barnwell Low Level Radioactive Waste Storage Facility for the fiscal year ending June 30, 2017, the following:

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- \$ 3,622,071 in Fixed Costs
- \$ 425,847 in Variable Costs
- \$ 437,635 in Irregular Costs

In conjunction with procedures performed for the fiscal year ending June 30, 2017, ORS also examined transactions recorded by Chem-Nuclear for the period beginning July 1, 2017, and extending through December 31, 2017. Based on this examination, ORS recommended adjustments to Chem-Nuclear's projected fixed and irregular costs for the fiscal year ending June 30, 2018, as listed in Exhibit 2. These adjustments were discussed with members of Chem-Nuclear's management who agreed with their propriety.

Based on ORS's examination of Chem-Nuclear's projected variable rates, ORS agrees Chem-Nuclear's projected rates are reasonable.

Daniel F. Sullivan

Deputy Director - Audit Department

March 16, 2018

Chem-Nuclear Systems, LLC Operating Experience and Reimbursable Costs For the Twelve Months Ended June 30, 2017

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			Per Amended Application		Commission Order No. 2017- 378		Actual Costs Over (Under) Commission Allowed	
Fixed Costs								
Labor, Fringe	and Non-Labor		\$	2,133,895	\$	2,114,646	\$	19,249
Corporate Allocations (G&A)				868,700		657,705		210,995
Equipment Le	ases and Support			153,281		210,094		(56,813)
Depreciation				115,401		127,491		(12,090)
Insurance				349,516		369,674		(20,158)
Legal Support (License Appeal)				1,278		12,000		(10,722)
	Total Fixed Costs		\$	3,622,071	_\$	3,491,610	<u>\$</u>	130,461
Variable Costs								
Vault Costs			\$	272,929	\$	307,219	\$	(34,290)
Labor and Non-Labor Costs				152,918	_	115,528		37,390
	Total Variable Costs		\$	425,847	S	422,747	\$	3,100

Chem-Nuclear Systems, LLC Operating Experience and Reimbursable Costs For the Twelve Months Ended June 30, 2017

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Irregular Costs		Per Amended Application		Commission Order No. 2017- 378		Actual Costs Over (Under) Commission Allowed	
			1	Y			
Trenches (Design, Construct, and Backfill): Trench 9	9						
Labor		10,195					
Non-Labor		91,994					
Total	\$	102,189	\$	100,000	\$	2,189	
License Renewal and Appeal Costs							
Labor		(52)					
Non-Labor							
Total		(52)		10,000		(10,052)	
Trench Records Software							
Labor		1,393					
Non-Labor		27,217					
Total		28,610		22,924		5,686	
Site Engineering and Drawing Updates							
Labor							
Non-Labor		1111 1					
Total			27/22	1,000		(1,000)	
Site Maintenance							
Labor		1,579					
Non-Labor		117,973					
Total	-	119,552	-	92,396		27,156	
Site Assessments							
Labor							
Non-Labor							
Total	A TITLE	-		2,000		(2,000)	
			-		-	(2,000)	
Large Component Disposal							
Labor		43,279					
Non-Labor		138,490					
Total		181,769		179,000	***********	2,769	
Irregular Severance Pay							
Labor		5,567					
Non-Labor							
Total		5,567				5,567	
Total Irregular Costs	\$	437,635	\$	407,320	\$	30,315	

Chem-Nuclear Systems, LLC Proposed Fixed, Irregular and Variable Costs For the Twelve Months Ending June 30, 2018

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	'n	Per Amended Application	Actual Through 12/31/2017	Difference
	FIXED C	<u>osts</u>		
Fixed Costs to which 29% operating margin is ac	lded:			
Labor, Fringe and Non-Labor	\$	2,001,198 \$	002 671	e 1017.500
Corporate Allocations (G&A)	Φ	845,743	983,671 422,872	\$ 1,017,527 422,871
Depreciation (Gazzy)		144,927	72,463	72,464
Insurance		297,750	36,520	261,230
Equipment Leases and Support		129,801	64,900	64,901
Total Margin Costs		3,419,419	1,580,426	1,838,993
Fixed Costs to which 29% operating margin is no	ot added:			
Legal Support (License Appeal)		34,000	31,212	2,788
Total Non-margin Costs		34,000	31,212	2,788
Total Fixed Costs	\$,	3,453,419	1,611,638	1,841,781
	IRREGULAF	R COSTS		
Trenches (Design, Construct, and Backfill)	\$	210,000 \$	45,563	164,437
License Renewal and Appeal Costs		5,000	248	4,752
Trench Records Software		5,000	(4,716)	9,716
Site Engineering and Drawing Updates		25,000		25,000
Site Maintenance		5,000	1,140	3,860
Security Upgrades		10,000		10,000
Severance/Incentive Large Component Disposal		2,000 270,367	2 70,3 67	2,000
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Total Irregular Costs	\$	532,367 \$	312,602	219,765

Chem-Nuclear Systems, LLC Proposed Fixed, Irregular and Variable Costs For the Twelve Months Ending June 30, 2018

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VARIABLE RATES

	Costs		Variable Factor	
Variable Labor and Non-Labor Rates				
Vault Purchase & Inspection	s	173.84	Per Vault	
A B C Waste Disposal	\$ _	2,427.56	Per Shipment	
Slit Trench Shipment	\$	37,425.65	Per Offload	
Customer Assistance	\$ _	107.63	Per Shipment	
Trench Records	\$	594.60	Per Container	
Variable Material Cost Rates (Vaults)				
Class A Waste	\$	38,93	Per Cubic Foot	
Class B Waste	\$	53.00	Per Cubic Foot	
Class C Waste	\$	55.57	Per Cubic Foot	
Slit Trench Waste	\$	202.33	Per Cubic Foot	